

## **AMENDMENTS TO THE SPECIFICATION**

### **Page 1**

Change the title to read Mixer With Smoothed Mixing Action

### **Page 1, lines 1-2**

#### **Field of the Invention**

The invention relates to a mixer, in particular a feed mixer ~~of the generic type explained in claim 1.~~

#### **Background of the Invention**

### **Page 2, after line 16, insert the heading**

#### **Brief Description of the Invention**

### **Page 2, line 20**

~~The object is solved by the features stated in Claim 1.~~

### **Page 3, line 6**

~~Advantageous developments of the invention can be taken from the sub-claims.~~

#### **Brief Description of the Drawings**

### **Page 3, after line 18 insert the heading**

#### **Detailed Description of the Invention**

### **Page 4, lines 4-15**

A mixing screw 7 around a vertical rotating axis 7a is arranged for rotation in the interior of the mixing chamber. The mixing screw 7 includes a screw shaft 8, which can, for example, be formed as a screw tube, and preferably a single spiral, or flight, 9 which is wound around it from a

region in the vicinity of the bottom 5 up to the upper free end of the screw shaft 8. The spiral 9 has its largest radial extent in the region of the bottom 5 and narrows in the direction of the free upper end of the screw shaft 8. In the illustrated embodiment the narrowing is discontinuous, whereby the largest reduction occurs significantly more pronounced between the lowermost winding and the next higher winding than between the remaining windings. The pitch of the spiral 9 and, where necessary, a bending or curvature of its surface correspond to the relationships as for normal mixing screws for this application.

**Page 7, lines 3-11**

Another special feature of the mixing screw 17 relates to the arrangement of the first guide plate 11, assigned to the lower end of the spiral, or flight, 9. As shown, particularly by Fig. 5, the spiral 9 has in the normal way a free take-up edge 18, which extends essentially radially to the rotating axis 7a. This take-up edge 18 is, as usual, arranged in the vicinity of the bottom 5. The directly following guide plate 11 comprises essentially the same pitch as the spiral 9 and, with its trailing edge 14 at a vertical distance  $v$  and a horizontal distance  $h$ , it is however arranged parallel to the take-up edge 18 so that a gap 19 is formed between the take-up edge 18 of the spiral 9 and the trailing edge 14 of the contacting guide plate 11.